

ABSTRACT

A one-piece constructed adapter collet tool, for adapting a smaller standard collet to a standard oversized spindle on a machine tool. Said one-piece constructed adapter collet having an external configuration constructed to mate said oversized standard spindle configuration, and an internal configuration constructed to mate with said smaller standard collet configuration. Said adapter collet is constructed with external threads for the purpose of engaging the draw spindle or draw spindle adapter internal threads. Said adapter collet is constructed with an external keyway to work in conjunction with said spindle pin on a machine tool. Said adapter collet is constructed with internal threads for the purpose of engaging said standard smaller collet external threads. Said adapter collet will have a setscrew compressing on said standard collet threads this action will fix the rotation of said standard collet. Activation of said adapter collet compression function is accomplished by the draw of the adapter collet via the draw spindle or draw spindle adapter, said draw action will compress the adapter collet mating tapered surface via said standard spindle tapered surface. Said compression function also compresses the internal tapered surface of said adapter collet thus compressing said standard collet mating tapered surface thus compressing, holding any parts with said standard collet.